

10/550102

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IC05 Rec'd PCT/PTO 21 SEP 2005

SEQUENCE LISTING

<110> Pharmadesign, Inc.

<120> Low Molecule Polypeptide for Active Channel Blocker

<130> P03-0030PCT

<140>

<141>

<150> 2003-085666

<151> 2003-03-26

<160> 17

<170> PatentIn Ver. 2.1

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Polypeptide

<400> 1

Trp Lys Cys Asn Pro Asn Asp Asp Lys Cys

1

5

10

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 2

Cys Ala Arg Pro Lys Leu Lys Cys

1 5

<210> 3

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 3

Trp Lys Cys Asn Pro Asn Asp Asp Lys Ala Ala Arg Pro Lys Leu Lys

1 5 10 15

Cys

<210> 4

<211> 35

<212> PRT

<213> Grammostola spatulata

<400> 4

Gly Cys Leu Glu Phe Trp Trp Lys Cys Asn Pro Asn Asp Asp Lys Cys

1 5 10 15

Cys Arg Pro Lys Leu Lys Cys Ser Lys Leu Phe Lys Leu Cys Asn Phe  
 20                    25                    30

Ser Ser Gly  
 35

<210> 5  
 <211> 42  
 <212> PRT  
 <213> Atrax robustus

<400> 5  
 Cys Ala Lys Lys Arg Asn Trp Cys Gly Lys Asn Glu Asp Cys Cys  
 1                5                10                15

Pro Met Lys Cys Ile Tyr Ala Trp Tyr Asn Gln Gln Gly Ser Cys Gln  
 20                25                30

Thr Thr Ile Thr Gly Leu Phe Lys Lys Cys  
 35                40

<210> 6  
 <211> 42  
 <212> PRT  
 <213> Hadronyche versuta

<400> 6  
 Cys Ala Lys Lys Arg Asn Trp Cys Gly Lys Thr Glu Asp Cys Cys  
 1                5                10                15

Pro Met Lys Cys Val Tyr Ala Trp Tyr Asn Glu Gln Gly Ser Cys Gln  
 20                25                30

Ser Thr Ile Ser Ala Leu Trp Lys Lys Cys

35

40

&lt;210&gt; 7

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Heteropodidae veratoria

&lt;400&gt; 7

Asp Asp Cys Gly Lys Leu Phe Ser Gly Cys Asp Thr Asn Ala Asp Cys

1

5

10

15

Cys Glu Gly Tyr Val Cys Arg Leu Trp Cys Lys Leu Asp Trp

20

25

30

&lt;210&gt; 8

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Selenocosmia huwena

&lt;400&gt; 8

Gly Cys Leu Gly Asp Lys Cys Asp Tyr Asn Asn Gly Cys Cys Ser Gly

1

5

10

15

Tyr Val Cys Ser Arg Thr Trp Lys Trp Cys Val Leu Ala Gly Pro Trp

20

25

30

&lt;210&gt; 9

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Agelenopsis aperta

<400> 9

Ala Cys Val Gly Glu Asn Gln Gln Cys Ala Asp Trp Ala Gly Pro His

1

5

10

15

Cys Cys Asp Gly Tyr Tyr Cys Thr Cys Arg Tyr Phe Pro Lys Cys Ile

20

25

30

Cys Arg Asn Asn Asn

35

<210> 10

<211> 37

<212> PRT

<213> Agelenopsis aperta

<400> 10

Ala Cys Val Gly Glu Asn Gln Gln Cys Ala Asp Trp Ala Gly Pro His

1

5

10

15

Cys Cys Asp Gly Tyr Tyr Cys Thr Cys Arg Tyr Phe Pro Lys Cys Ile

20

25

30

Cys Arg Asn Asn Asn

35

<210> 11

<211> 37

<212> PRT

<213> Agelenopsis aperta

<220>

<221> UNSURE

<222> (37)

<223> Xaa represents unknown amino acid residue

<400> 11

Glu Cys Val Pro Glu Asn Gly His Cys Arg Asp Trp Tyr Asp Glu Cys  
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Cys Glu Gly Phe Tyr Cys Ser Cys Arg Gln Pro Pro Lys Cys Ile Cys  
20 25 30

Arg Asn Asn Asn Xaa

35

<210> 12

<211> 33

<212> PRT

<213> Selenocosmia huwena

<400> 12

Ala Cys Lys Gly Val Phe Asp Ala Cys Thr Pro Gly Lys Asn Glu Cys  
1 5 10 15

Cys Pro Asn Arg Val Cys Ser Asp Lys His Lys Trp Cys Lys Trp Lys  
20 25 30

Leu

<210> 13

<211> 37

<212> PRT

<213> Selenocosmia huwena

<400> 13

Leu Phe Glu Cys Ser Phe Ser Cys Glu Ile Glu Lys Glu Gly Asp Lys

1 5 10 15

Pro Cys Lys Lys Lys Cys Lys Gly Gly Trp Lys Cys Lys Phe Asn

20 25 30

Met Cys Val Lys Val

35

<210> 14

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 14

Gly Cys Leu Glu Phe Trp Trp Lys Ala Asn Pro Asn Asp Asp Lys Ala

1 5 10 15

Cys

<210> 15

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 15

Cys Ala Arg Pro Lys Leu Lys Ala Ser Lys L<sup>e</sup>u Phe Lys Leu Cys  
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<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 16

Cys Ala Ala Pro Lys Leu Lys Cys

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<210> 17

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
Polypeptide

<400> 17

Cys Ala Arg Pro Lys Leu Ala Cys

1               5